



Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

NAR300 Oil Leak Detector System

Approval Guide Listing: Category:

Ignitable Flammable Liquid Equipment, Hydrocarbon Leak Detectors

NAR300 Leak Detector System. System consists of NAR300 Float Sensor and Transmitter combination used with NRR261 Converter and Transmitter combination or NRR262 Converter. The system requires one converter, one transmitter and one float sensor. The system provides detection of water-insoluble petrochemical hydrocarbon liquids and vegetable oils. The converter assembly provides a system alarm relay output rated 5A 250VAC/30VDC. The converter is connected to the float sensor via the transmitter. The NRR261 converter is explosionproof for Class I, Division 1, Group C and D and Class I, Zone 1, AEx d [ia] IIB with intrinsically safe circuits for connection to Class I, Division 1, Groups C and D and Class I, Zone 0, AEx ia IIB hazardous (classified) locations when installed in accordance with Control Drawing Ex1088-1192. The NRR262 converter is an associated intrinsically safe apparatus for connection to Class I, Division 1, Groups C and D and Class I, Zone 0, AEx ia IIB hazardous (classified) locations when installed in accordance with Control Drawing Ex1089-1205. The NAR300 transmitter is intrinsically safe for Class I, Division 1, Group C and D and Class I, Zone 1, AEx ia [ia] IIB with intrinsically safe circuits for connection to Class I, Division 1, Groups C and D and Class I, Zone 0, AEx ia IIB hazardous (classified) locations when installed in accordance with Control Drawing Ex1087-1177. The float sensor is intrinsically safe for Class I, Division 1, Groups C and D and Class I, Zone 0, AEx ia IIB hazardous (classified) locations when installed in accordance with Control Drawing Ex1087-1177. The system is suitable for operation in ambient temperatures from -20°C to 60°C (-4°F to 140°F). The input power rating is 22 – 26 VDC or 90 – 250 VAC 50/60 Hz. The NRR261 and NAR300 enclosures are rated Type 4X and IP67, the NRR262 enclosure is rated IP20.

NAR300-abAcde. Float and Transmitter for Oil Leak Detector System.

IS / I / 1 / CD / T5 Ta = 60°C – Ex1087-1177; IP67 (Float Sensor)

I / 0 / AEx ia / IIB / T5 Ta = 60°C – Ex1087-1177; IP67 (Float Sensor)

IS-AIS / I / 1 / CD / T4 Ta = 60°C – Ex1087-1177; IP67 (Transmitter)

I / 1 [0] / AEx ia [ia] / IIB / T4 Ta = 60°C – Ex1087-1177; Type 4X, IP65 (Transmitter)

a = Approval C

b = Type 1, 5 or 6

c = Signal Cable A, B, C, D, E or F

d = Float Guide 1, 2, 3 or 9

e = Cable Entry A, B, C, E or F

Potential Electrostatic Discharge hazard, clean surfaces with a damp cloth

NRR261-abc. Converter and Transmitter for Oil Leak Detector System.

XP-AIS / I / 1 / CD / T6 Ta = 60°C – Ex1088-1192; Type 4X, IP65

I / 1 [0] / AEx d ia [ia] / IIB / T4 Ta = 60°C – Ex1088-1192; Type 4X, IP65 (a = C)

I / 1 [1] / AEx d [ia] / IIB / T6 Ta = 60°C – Ex1088-1192; Type 4X, IP65 (a = F)

a = Approval C or F

b = Power Supply A or B

c = Cable Entry Q, R, T, U or W

1. Contact manufacturer for flamepath joint details if repair is required.

2. Potential Electrostatic Discharge hazard, clean surfaces with a damp cloth.



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NRR262-ab. Converter for Oil Leak Detector System.

AIS / I / 1 / CD / Ta = 60°C – Ex1089-1205

[I / 0] / AEx [ia] / IIB / Ta = 60°C – Ex1089-1205

a = Approval C

b = Power Supply A or B

Endress & Hauser Yamanashi Co Ltd
882-1 Mitsukunugi Sakaigawa-cho
Fuefuki-shi, Yamanashi-Ken 406-0846
Japan

This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s), of the following FM Approval Standards and other documents:

Approval Standards

<i>Class Number</i>	<i>Date</i>
3600	2011
3610	2010
3615	2006
3810	2005
7745	2012

Other Standards

<i>Organization, Designation</i>	<i>Date</i>
ANSI/ISA 61010-1	2004
ANSI/NEMA 250	2003
ANSI/IEC 60529	2004
ANSI/ISA 60079-0	2013
ANSI/ISA 60079-1	2013
ANSI/ISA 60079-11	2011
ANSI/ISA 60079-25	2011

Original Approval Job Identification: 0003049525

Approval Granted: August 4, 2015

Related Report:

Subsequent Revisions:

To verify the availability of the Approved product, please refer to www.approvalguide.com

A handwritten signature in dark ink, appearing to read "J.E. Marquedant".

James E. Marquedant
Manager - Electrical Systems
FM Approvals
1151 Boston-Providence Turnpike,
Norwood MA, 02062 USA

4 August 2015

Date



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